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UG

CHEMICAL ENGG. (B.TECH 4Y) - CH

CHEMICAL ENGG.(M.TECH DUAL 5Y) - CH1					
Subno	SubName(Click to get Syllabus(PDF))	Ltp	Crd	Sub Type	
	Semester No-1/2				
BS10003	SCIENCE OF LIVING SYSTEMS	2- 0- 0	2	FC	
CE13003	ENGINEERING DRAWING AND COMPUTER GRAPHICS	1- 0- 3	3	FC	
CS10003	PROGAMMING AND DATA STRUCTURES	3- 0- 0	3	FC	
CS19003	PROGAMMING AND DATA STRUCTURES LABORATORY	0- 0- 3	2	FC	
CY11003	CHEMISTRY	3- 1- 0	4	FC	
CY19003	CHEMISTRY LABORATORY	0- 0- 3	2	FC	
DY17003	DIY PROJECT	0- 0- 3	2	FC	
EA10007	EXTRA ACADEMIC ACTIVITY-I	0- 0- 3	1	FC	
EA10008	EXTRA ACADEMIC ACTIVITY-II	0- 0- 3	1	FC	
EE11003	ELECTRICAL TECHNOLOGY	3- 1- 0	4	FC	
EN19003	ENGINEERING LABORATORY	0- 0- 3	2	FC	
EV10003	ENVIRONMENTAL SCIENCE	2- 0- 0	2	FC	
HS13003	ENGLISH FOR COMMUNICATION	2- 0- 2	3	FC	
MA11003	ADVANCED CALCULUS	3- 1- 0	4	FC	
MA11004	LINEAR ALGEBRA, NUMERICAL AND COMPLEX ANALYSIS	3- 1- 0	4	FC	
ME11003	BASIC ENGINEERING MECHANICS	3- 1- 0	4	FC	
PH11003	PHYSICS OF WAVES	3- 1- 0	4	FC	

PH19003	PHYSICS LABORATORY	0- 0- 3	2	FC
	Semester No- 3			
CH21201	CHEMICAL ENGINEERING THERMODYNAMICS	3- 1- 0	4	Depth CORE XIX
CH21203	CHEMICAL PROCESS CALCULATIONS	3- 1- 0	4	Depth CORE XX
CH21205	MECHANICAL OPERATIONS	3- 1- 0	4	Depth CORE XXI
CH21207	FLUID MECHANICS	3- 1- 0	4	Depth CORE XXII
CH29201	FUEL LABORATORY	0- 0- 3	2	Depth CORE XXIII
EA10009	EXTRA ACADEMIC ACTIVITY-III	0- 0- 3	1	Depth CORE XXIV
				HSS- Breadth I
	Semester No- 4			
EA10010	EXTRA ACADEMIC ACTIVITY-IV	0- 0- 3	1	Depth CORE XXIX
CH21202	MASS TRANSFER I	3- 1- 0	4	Depth CORE XXV
CH21204	HEAT TRANSFER	3- 1- 0	4	Depth CORE XXVI
CH21206	REACTION ENGINEERING	3- 1- 0	4	Depth CORE XXVII
CH29202	FLUID FLOW LABORATORY AND DESIGN	0- 0- 3	2	Depth CORE XXVIII
MA20202	TRANSFORM CALCULUS	3- 0- 0	3	Depth CORE XXX
				Breadth Elective I
	Semester No- 5			
CH21208	INSTRUMENTATION AND PROCESS CONTROL	3- 1- 0	4	Depth CORE XXXI
CH31010	MASS TRANSFER II	3- 1- 0	4	Depth CORE XXXII
CH31203	COMPUTER AIDED PROCESS ENGINEERING	3- 1- 0	4	Depth CORE XXXIII
CH30014	CHEMICAL PROCESS TECHNOLOGY	3- 0- 0	3	Depth CORE XXXIV
CH49015	REACTION ENGINEERING LABORATORY	0- 0- 3	2	Depth CORE XXXV

CH39023	PROCESS EQUIPMENT DESIGN-	1- 0-	3	Depth CORE
CH30015	MECHANICAL OPERATIONS &	0-	2	Depth CORE
C1133013		3		XXXVII
	Semester No- 6			
CH39006	MASS TRANSFER LABORATORY	0- 0- 3	2	Depth CORE XL
CH49019	COMPUTER AIDED PROCESS ENGINEERING LAB.	0- 0- 3	2	Depth CORE XLI
CH30012	TRANSPORT PHENOMENA	3- 1- 0	4	Depth CORE XLII
CH39020	INSTRUMENTATION AND PROCESS CONTROL LABORATORY	0- 0- 3	2	Depth CORE XXXIX
CH39202	PROCESS EQUIPMENT DESIGN-	1- 0- 3	3	Depth CORE XXXVIII
				Breadth Elective II
				Depth Elective
	LIST OF ELECTIVES	,	,	
CH30202	PREDICTIVE MODELLING APPLICATIONS IN CHEMICAL ENGINEERING	3- 0- 0	3	Depth Elective
CH40001	BIOCHEMICAL ENGINEERING	3- 0- 0	3	Depth Elective
CH42002	NON-CONVENTIONAL ENERGY ENGG.	3- 0- 0	3	Depth Elective
CH42010	PROCESS PLANT OPERATION & SAFETY	3- 0- 0	3	Depth Elective I
CH42012	SYSTEMS ENGINEERING	3- 0- 0	3	Depth Elective I
CH42014	FUEL TECHNOLOGY	3- 0- 0	3	Depth Elective I
CH60016	FUNDAMENTALS OF BIOENERGY	3- 0- 0	3	Depth Elective I
CH62003	PROCESS MODELLING AND SIMULATION	3- 1- 0	4	Depth Elective I
CH62004	FLOW OF COMPLEX MIXTURES	3- 1- 0	4	Depth Elective I
CH62006	REAL TIME INTELLIGENT PROCESS SYSTEMS	3- 0- 0	3	Depth Elective I
CH62008	NOVEL SEPARATION PROCESSES	3- 0- 0	3	Depth Elective I
	CH39015 CH39006 CH39012 CH39020 CH39202 CH39202 CH40001 CH42002 CH42012 CH42014 CH42014 CH62006 CH62006	CH39015 MECHANICAL OPERATIONS & HEAT TRANSFER LABORATORY Semester No- 6 CH39006 MASS TRANSFER LABORATORY CH49019 COMPUTER AIDED PROCESS ENGINEERING LAB. CH39012 TRANSPORT PHENOMENA CH39920 INSTRUMENTATION AND PROCESS CONTROL LABORATORY CH399202 PROCESS EQUIPMENT DESIGN-II CH39202 PROCESS EQUIPMENT DESIGN-II CH30202 PREDICTIVE MODELLING APPLICATIONS IN CHEMICAL ENGINEERING CH40001 BIOCHEMICAL ENGINEERING CH42002 NON-CONVENTIONAL ENERGY ENGG. CH42010 PROCESS PLANT OPERATION & SAFETY CH42011 SYSTEMS ENGINEERING CH42012 SYSTEMS ENGINEERING CH42014 FUEL TECHNOLOGY CH60016 FUNDAMENTALS OF BIOENERGY CH62003 PROCESS MODELLING AND SIMULATION CH62004 FLOW OF COMPLEX MIXTURES CH62006 REAL TIME INTELLIGENT PROCESS SYSTEMS CH62008 NOVEL SEPARATION	CH39023 PROCESS EQUIPMENT DESIGN- HEAT TRANSFER LABORATORY 0-3 Semester No- 6 CH39006 MASS TRANSFER LABORATORY 0-0-0-0 CH49019 COMPUTER AIDED PROCESS ENGINEERING LAB. 0-0-0-0 CH30012 TRANSPORT PHENOMENA 1-0-0-0 CH39020 INSTRUMENTATION AND PROCESS CONTROL LABORATORY 0-0-0-0 CH39202 PROCESS EQUIPMENT DESIGN-II 1-0-0-0-0 CH39202 PREDICTIVE MODELLING APPLICATIONS IN CHEMICAL ENGINEERING 0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-	CH39023 PROCESS EQUIPMENT DESIGN- 1 3 3 CH39015 MECHANICAL OPERATIONS & HEAT TRANSFER LABORATORY 0-0 2 Semester No-6 CH39006 MASS TRANSFER LABORATORY 0-0 2 CH49019 COMPUTER AIDED PROCESS PAINT OF PROCESS CONTROL LABORATORY 0-1 2 CH39020 INSTRUMENTATION AND PROCESS CONTROL LABORATORY 0-1 3-1 4 CH399202 PROCESS EQUIPMENT DESIGN- II 1-1 3-1 3-1 CH39202 PREDICTIVE MODELLING APPLICATIONS IN CHEMICAL ENGINEERING 3-1 3-1 CH390202 PREDICTIVE MODELLING APPLICATIONS IN CHEMICAL ENGINEERING 3-1 3-1 CH430012 BIOCHEMICAL ENGINEERING 3-1 3-1 CH42002 NON-CONVENTIONAL ENERGY BAFETY 3-1 3-1 CH42010 PROCESS PLANT OPERATION SAFETY 3-1 3-1 CH42011 FUEL TECHNOLOGY 3-1 3-1 CH60016 FUNDAMENTALS OF BIOENERGY 3-1 3-1 CH62001 PROCESS MODELLING AND BIOENERGY 3-1 3

CH62015	ADVANCED THERMODYNAMICS	3- 1- 0	4	Depth Elective
CH62016	CHEMICAL REACTOR ANALYSIS	3- 1- 0	4	Depth Elective
CH62018	COMBUSTION ENGINEERING	3- 1- 0	4	Depth Elective
CH62020	MINERAL BENEFICIATION	3- 1- 0	4	Depth Elective
CH62022	REACTOR STABILITY AND CONTROL	3- 0- 0	3	Depth Elective
CH62024	COMPUTER PROCESS CONTROL	3- 0- 0	3	Depth Elective
CH62026	FLUIDIZATION ENGINEERING	3- 0- 0	3	Depth Elective
CH62028	PROJECT ENGINEERING AND MANAGEMENT	3- 0- 0	3	Depth Elective
CH62035	TRANSPORT PROCESSES IN PHYSIOLOGICAL SYSTEMS	3- 1- 0	4	Depth Elective
CH62038	HAZARD ANALYSIS AND RISK MANAGEMENT IN CHEMICAL INDUSTRY	3- 1- 0	4	Depth Elective
CH62045	CHEMICAL ENGINEERING PRINCIPLES IN POLYMER PROCESSING	3- 1- 0	4	Depth Elective
CH62048	STORAGE AND HANDLING OF MATERIALS	3- 1- 0	4	Depth Elective
CH62050	HAZARDOUS WASTE TREATMENT & MANAGEMENT	3- 0- 0	3	Depth Elective
CH62052	INSTABILITY & PATTERNING IN THIN POLYMER FILM	3- 1- 0	4	Depth Elective
CH70002	TRANSPORT IN POROUS MEDIA	3- 0- 0	3	Depth Elective
	Semester No- 7			
CH61015	ADVANCED MATHEMATICAL TECHNIQUES IN CHEMICAL ENGINEERING	3- 1- 0	4	Depth CORE XLIII
CH61011	ADVANCED FLUID DYNAMICS	3- 1- 0	4	Depth CORE XLIV
CH49201	M.TECH SEMINAR	0- 0- 3	2	Depth CORE XLV
				Breadth Elective III
				Depth Elective
				Depth Elective

				Project I
	LIST OF ELECTIVES			
CH42006	COMPUTER METHODS IN CHEM. ENGG.	3- 0- 0	3	Depth Elective II
CH61017	RHEOLOGY OF COMPLEX FLUIDS	3- 1- 0	4	Depth Elective II
CH62001	OPTIMIZATION TECHNIQUES IN PROCESS DESIGN	3- 1- 0	4	Depth Elective II
CH62007	INDUSTRIAL POLLUTION CONTROL	3- 0- 0	3	Depth Elective II
CH62009	PETROLEUM REFINERY ENGINEERING	3- 0- 0	3	Depth Elective II
CH62010	PETROCHEMICAL TECHNOLOGY	3- 0- 0	3	Depth Elective II
CH62021	MULTIPHASE FLOW	3- 1- 0	4	Depth Elective II
CH62023	RESERVOIR ENGINEERING	3- 1- 0	4	Depth Elective II
CH62033	GREEN TECHNOLOGY	3- 0- 0	3	Depth Elective II
CH62041	POLYMER ENGINEERING	3- 0- 0	3	Depth Elective II
CH62043	ENERY CONSERVATION IN PROCESS INDUSTRIES	3- 0- 0	3	Depth Elective II
CH62046	MANUFACTURING AND CHARACTERISATION OF POLYMER MATRIX COMPOSITES	3- 1- 0	4	Depth Elective II
CH62047	CFD APPLICATIONS IN CHEMICAL PROCESSING	3- 1- 0	4	Depth Elective II
CH62049	MICROSCALE TRANSPORT PROCESSES	3- 0- 0	3	Depth Elective II
CH71002	COMPUTATIONAL MODELING OF MULTIPHASE REACTIVE FLOWS	3- 1- 0	4	Depth Elective II
CH42006	COMPUTER METHODS IN CHEM. ENGG.	3- 0- 0	3	Depth Elective III
CH61017	RHEOLOGY OF COMPLEX FLUIDS	3- 1- 0	4	Depth Elective III
CH62001	OPTIMIZATION TECHNIQUES IN PROCESS DESIGN	3- 1- 0	4	Depth Elective III
CH62007	INDUSTRIAL POLLUTION CONTROL	3- 0- 0	3	Depth Elective III
CH62009	PETROLEUM REFINERY	3- 0-	3	Depth Elective

		0		III
CH62010	PETROCHEMICAL TECHNOLOGY	3- 0- 0	3	Depth Elective III
CH62021	MULTIPHASE FLOW	3- 1- 0	4	Depth Elective III
CH62023	RESERVOIR ENGINEERING	3- 1- 0	4	Depth Elective III
CH62033	GREEN TECHNOLOGY	3- 0- 0	3	Depth Elective III
CH62041	POLYMER ENGINEERING	3- 0- 0	3	Depth Elective III
CH62043	ENERY CONSERVATION IN PROCESS INDUSTRIES	3- 0- 0	3	Depth Elective III
CH62046	MANUFACTURING AND CHARACTERISATION OF POLYMER MATRIX COMPOSITES	3- 1- 0	4	Depth Elective III
CH62047	CFD APPLICATIONS IN CHEMICAL PROCESSING	3- 1- 0	4	Depth Elective III
CH62049	MICROSCALE TRANSPORT PROCESSES	3- 0- 0	3	Depth Elective III
CH71002	COMPUTATIONAL MODELING OF MULTIPHASE REACTIVE FLOWS	3- 1- 0	4	Depth Elective III
CH47023	PROJECT-I	0- 0- 6	4	Project I
	Semester No- 8			
CH61012	ADVANCED MASS TRANSFER	3- 1- 0	4	Depth CORE XLVI
CH61014	ADVANCED HEAT TRANSFER	3- 1- 0	4	Depth CORE XLVII
CH61016	PROCESS DYNAMICS & CONTROL	3- 1- 0	4	Depth CORE XLVIII
				Depth Elective IV
				Depth Elective V
				Project II
LIST OF ELECTIVES				
CH30202	PREDICTIVE MODELLING APPLICATIONS IN CHEMICAL ENGINEERING	3- 0- 0	3	Depth Elective IV
CH40001	BIOCHEMICAL ENGINEERING	3- 0- 0	3	Depth Elective IV
CH42002	NON-CONVENTIONAL ENERGY ENGG.	3- 0- 0	3	Depth Elective IV

CH42010	PROCESS PLANT OPERATION & SAFETY	3- 0- 0	3	Depth Elective IV
CH42012	SYSTEMS ENGINEERING	3- 0- 0	3	Depth Elective IV
CH42014	FUEL TECHNOLOGY	3- 0- 0	3	Depth Elective IV
CH60016	FUNDAMENTALS OF BIOENERGY	3- 0- 0	3	Depth Elective IV
CH62003	PROCESS MODELLING AND SIMULATION	3- 1- 0	4	Depth Elective IV
CH62004	FLOW OF COMPLEX MIXTURES	3- 1- 0	4	Depth Elective IV
CH62006	REAL TIME INTELLIGENT PROCESS SYSTEMS	3- 0- 0	3	Depth Elective IV
CH62008	NOVEL SEPARATION PROCESSES	3- 0- 0	3	Depth Elective IV
CH62015	ADVANCED THERMODYNAMICS	3- 1- 0	4	Depth Elective IV
CH62016	CHEMICAL REACTOR ANALYSIS	3- 1- 0	4	Depth Elective IV
CH62018	COMBUSTION ENGINEERING	3- 1- 0	4	Depth Elective IV
CH62020	MINERAL BENEFICIATION	3- 1- 0	4	Depth Elective IV
CH62022	REACTOR STABILITY AND CONTROL	3- 0- 0	3	Depth Elective IV
CH62024	COMPUTER PROCESS CONTROL	3- 0- 0	3	Depth Elective IV
CH62026	FLUIDIZATION ENGINEERING	3- 0- 0	3	Depth Elective IV
CH62028	PROJECT ENGINEERING AND MANAGEMENT	3- 0- 0	3	Depth Elective IV
CH62035	TRANSPORT PROCESSES IN PHYSIOLOGICAL SYSTEMS	3- 1- 0	4	Depth Elective IV
CH62038	HAZARD ANALYSIS AND RISK MANAGEMENT IN CHEMICAL INDUSTRY	3- 1- 0	4	Depth Elective IV
CH62045	CHEMICAL ENGINEERING PRINCIPLES IN POLYMER PROCESSING	3- 1- 0	4	Depth Elective IV
CH62048	STORAGE AND HANDLING OF MATERIALS	3- 1- 0	4	Depth Elective IV
CH62050	HAZARDOUS WASTE TREATMENT & MANAGEMENT	3- 0- 0	3	Depth Elective IV

CH62052	INSTABILITY & PATTERNING IN THIN POLYMER FILM	3- 1- 0	4	Elective IV
CH70002	TRANSPORT IN POROUS MEDIA	3- 0- 0	3	Depth Elective IV
CH30202	PREDICTIVE MODELLING APPLICATIONS IN CHEMICAL ENGINEERING	3- 0- 0	3	Depth Elective V
CH40001	BIOCHEMICAL ENGINEERING	3- 0- 0	3	Depth Elective V
CH42002	NON-CONVENTIONAL ENERGY ENGG.	3- 0- 0	3	Depth Elective V
CH42010	PROCESS PLANT OPERATION & SAFETY	3- 0- 0	3	Depth Elective V
CH42012	SYSTEMS ENGINEERING	3- 0- 0	3	Depth Elective V
CH42014	FUEL TECHNOLOGY	3- 0- 0	3	Depth Elective V
CH60016	FUNDAMENTALS OF BIOENERGY	3- 0- 0	3	Depth Elective V
CH62003	PROCESS MODELLING AND SIMULATION	3- 1- 0	4	Depth Elective V
CH62004	FLOW OF COMPLEX MIXTURES	3- 1- 0	4	Depth Elective V
CH62006	REAL TIME INTELLIGENT PROCESS SYSTEMS	3- 0- 0	3	Depth Elective V
CH62008	NOVEL SEPARATION PROCESSES	3- 0- 0	3	Depth Elective V
CH62015	ADVANCED THERMODYNAMICS	3- 1- 0	4	Depth Elective V
CH62016	CHEMICAL REACTOR ANALYSIS	3- 1- 0	4	Depth Elective V
CH62018	COMBUSTION ENGINEERING	3- 1- 0	4	Depth Elective V
CH62020	MINERAL BENEFICIATION	3- 1- 0	4	Depth Elective V
CH62022	REACTOR STABILITY AND CONTROL	3- 0- 0	3	Depth Elective V
CH62024	COMPUTER PROCESS CONTROL	3- 0- 0	3	Depth Elective V
CH62026	FLUIDIZATION ENGINEERING	3- 0- 0	3	Depth Elective V
CH62028	PROJECT ENGINEERING AND MANAGEMENT	3- 0- 0	3	Depth Elective V
OUCOOS	TRANSPORT PROCESSES IN	3-		Depth

CH02035	PHYSIOLOGICAL SYSTEMS	0	4	V
CH62038	HAZARD ANALYSIS AND RISK MANAGEMENT IN CHEMICAL INDUSTRY	3- 1- 0	4	Depth Elective V
CH62045	CHEMICAL ENGINEERING PRINCIPLES IN POLYMER PROCESSING	3- 1- 0	4	Depth Elective V
CH62048	STORAGE AND HANDLING OF MATERIALS	3- 1- 0	4	Depth Elective V
CH62050	HAZARDOUS WASTE TREATMENT & MANAGEMENT	3- 0- 0	3	Depth Elective V
CH62052	INSTABILITY & PATTERNING IN THIN POLYMER FILM	3- 1- 0	4	Depth Elective V
CH70002	TRANSPORT IN POROUS MEDIA	3- 0- 0	3	Depth Elective V
CH47024	PROJECT-II	0- 0- 9	6	Project II
	Semester No- 9			
CH48013	INDUSTRIAL TRAINING	0- 0- 0	2	Depth CORE XLIX
				Breadth Elective IV
				Depth Elective VI
				Project III
	LIST OF ELECTIVES	,		
CH42006	COMPUTER METHODS IN CHEM. ENGG.	3- 0- 0	3	Depth Elective VI
CH61017	RHEOLOGY OF COMPLEX FLUIDS	3- 1- 0	4	Depth Elective VI
CH62001	OPTIMIZATION TECHNIQUES IN PROCESS DESIGN	3- 1- 0	4	Depth Elective VI
CH62007	INDUSTRIAL POLLUTION CONTROL	3- 0- 0	3	Depth Elective VI
CH62009	PETROLEUM REFINERY ENGINEERING	3- 0- 0	3	Depth Elective VI
CH62010	PETROCHEMICAL TECHNOLOGY	3- 0- 0	3	Depth Elective VI
CH62021	MULTIPHASE FLOW	3- 1- 0	4	Depth Elective VI
CH62023	RESERVOIR ENGINEERING	3- 1- 0	4	Depth Elective VI
CH62033	GREEN TECHNOLOGY	3- 0- 0	3	Depth Elective VI

CH62041	POLYMER ENGINEERING	3- 0- 0	3	Depth Elective VI
CH62043	ENERY CONSERVATION IN PROCESS INDUSTRIES	3- 0- 0	3	Depth Elective VI
CH62046	MANUFACTURING AND CHARACTERISATION OF POLYMER MATRIX COMPOSITES	3- 1- 0	4	Depth Elective VI
CH62047	CFD APPLICATIONS IN CHEMICAL PROCESSING	3- 1- 0	4	Depth Elective VI
CH62049	MICROSCALE TRANSPORT PROCESSES	3- 0- 0	3	Depth Elective VI
CH71002	COMPUTATIONAL MODELING OF MULTIPHASE REACTIVE FLOWS	3- 1- 0	4	Depth Elective VI
CH57003	M.TECH. PROJECT I	0- 0- 0	12	Project III
	Semester No- 10			
CH69202	M-TECH LABORATORY	0- 0- 3	2	Depth CORE L
				Depth Elective VII
				Depth Elective VIII
				Project IV
	LIST OF ELECTIVES			
	PREDICTIVE MODELLING	3-		Depth
CH30202	APPLICATIONS IN CHEMICAL ENGINEERING	0- 0	3	Elective VII
CH30202 CH40001	APPLICATIONS IN CHEMICAL		3	Elective
	APPLICATIONS IN CHEMICAL ENGINEERING	0 3- 0-		Elective VII Depth Elective
CH40001	APPLICATIONS IN CHEMICAL ENGINEERING BIOCHEMICAL ENGINEERING NON-CONVENTIONAL ENERGY	3- 0- 0	3	Elective VII Depth Elective VII Depth Elective
CH40001 CH42002	APPLICATIONS IN CHEMICAL ENGINEERING BIOCHEMICAL ENGINEERING NON-CONVENTIONAL ENERGY ENGG. PROCESS PLANT OPERATION &	3- 0- 0 3- 0- 0	3	Depth Elective VII Depth Elective VII Depth Elective VII Depth Elective VII
CH40001 CH42002 CH42010	APPLICATIONS IN CHEMICAL ENGINEERING BIOCHEMICAL ENGINEERING NON-CONVENTIONAL ENERGY ENGG. PROCESS PLANT OPERATION & SAFETY	3- 0- 0 3- 0- 0 3- 0- 0	3	Elective VII Depth Elective VII Depth Elective VII Depth Elective VIII Depth Elective VIII Depth Elective VIII
CH42002 CH42010 CH42012	APPLICATIONS IN CHEMICAL ENGINEERING BIOCHEMICAL ENGINEERING NON-CONVENTIONAL ENERGY ENGG. PROCESS PLANT OPERATION & SAFETY SYSTEMS ENGINEERING	3- 0- 0 3- 0- 0 3- 0- 0 3- 0- 0 0	3 3 3	Elective VII Depth Elective VII
CH42002 CH42010 CH42012 CH42014	APPLICATIONS IN CHEMICAL ENGINEERING BIOCHEMICAL ENGINEERING NON-CONVENTIONAL ENERGY ENGG. PROCESS PLANT OPERATION & SAFETY SYSTEMS ENGINEERING FUEL TECHNOLOGY	3- 0- 0 0 3- 0- 0 0 3- 0- 0 0 3- 0- 0 0 3- 0- 0 0 3- 0- 0 0 0 3- 0- 0 0 0 3- 0- 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 3 3 3	Elective VII Depth Elective VII
CH42002 CH42010 CH42012 CH42014 CH60016	APPLICATIONS IN CHEMICAL ENGINEERING BIOCHEMICAL ENGINEERING NON-CONVENTIONAL ENERGY ENGG. PROCESS PLANT OPERATION & SAFETY SYSTEMS ENGINEERING FUEL TECHNOLOGY FUNDAMENTALS OF BIOENERGY PROCESS MODELLING AND	3- 0- 0- 0- 0- 0- 0- 0- 0- 0- 0- 0- 0- 0-	3 3 3 3 3	Elective VII Depth Elective VII

CH62006	REAL TIME INTELLIGENT PROCESS SYSTEMS	0- 0	3	Elective VII
CH62008	NOVEL SEPARATION PROCESSES	3- 0- 0	3	Depth Elective VII
CH62015	ADVANCED THERMODYNAMICS	3- 1- 0	4	Depth Elective VII
CH62016	CHEMICAL REACTOR ANALYSIS	3- 1- 0	4	Depth Elective VII
CH62018	COMBUSTION ENGINEERING	3- 1- 0	4	Depth Elective VII
CH62020	MINERAL BENEFICIATION	3- 1- 0	4	Depth Elective VII
CH62022	REACTOR STABILITY AND CONTROL	3- 0- 0	3	Depth Elective VII
CH62024	COMPUTER PROCESS CONTROL	3- 0- 0	3	Depth Elective VII
CH62026	FLUIDIZATION ENGINEERING	3- 0- 0	3	Depth Elective VII
CH62028	PROJECT ENGINEERING AND MANAGEMENT	3- 0- 0	3	Depth Elective VII
CH62035	TRANSPORT PROCESSES IN PHYSIOLOGICAL SYSTEMS	3- 1- 0	4	Depth Elective VII
CH62038	HAZARD ANALYSIS AND RISK MANAGEMENT IN CHEMICAL INDUSTRY	3- 1- 0	4	Depth Elective VII
CH62045	CHEMICAL ENGINEERING PRINCIPLES IN POLYMER PROCESSING	3- 1- 0	4	Depth Elective VII
CH62048	STORAGE AND HANDLING OF MATERIALS	3- 1- 0	4	Depth Elective VII
CH62050	HAZARDOUS WASTE TREATMENT & MANAGEMENT	3- 0- 0	3	Depth Elective VII
CH62052	INSTABILITY & PATTERNING IN THIN POLYMER FILM	3- 1- 0	4	Depth Elective VII
CH70002	TRANSPORT IN POROUS MEDIA	3- 0- 0	3	Depth Elective VII
CH30202	PREDICTIVE MODELLING APPLICATIONS IN CHEMICAL ENGINEERING	3- 0- 0	3	Depth Elective VIII
CH40001	BIOCHEMICAL ENGINEERING	3- 0- 0	3	Depth Elective VIII
CH42002	NON-CONVENTIONAL ENERGY ENGG.	3- 0- 0	3	Depth Elective VIII
CH42010	PROCESS PLANT OPERATION & SAFETY	3- 0- 0	3	Depth Elective VIII
CH42012	SYSTEMS ENGINEERING	3- 0-	2	Depth

OTHEOLE	OTOTEMO ENGINEERINO	0	ľ	VIII
CH42014	FUEL TECHNOLOGY	3- 0- 0	3	Depth Elective VIII
CH60016	FUNDAMENTALS OF BIOENERGY	3- 0- 0	3	Depth Elective VIII
CH62003	PROCESS MODELLING AND SIMULATION	3- 1- 0	4	Depth Elective VIII
CH62004	FLOW OF COMPLEX MIXTURES	3- 1- 0	4	Depth Elective VIII
CH62006	REAL TIME INTELLIGENT PROCESS SYSTEMS	3- 0- 0	3	Depth Elective VIII
CH62008	NOVEL SEPARATION PROCESSES	3- 0- 0	3	Depth Elective VIII
CH62015	ADVANCED THERMODYNAMICS	3- 1- 0	4	Depth Elective VIII
CH62016	CHEMICAL REACTOR ANALYSIS	3- 1- 0	4	Depth Elective VIII
CH62018	COMBUSTION ENGINEERING	3- 1- 0	4	Depth Elective VIII
CH62020	MINERAL BENEFICIATION	3- 1- 0	4	Depth Elective VIII
CH62022	REACTOR STABILITY AND CONTROL	3- 0- 0	3	Depth Elective VIII
CH62024	COMPUTER PROCESS CONTROL	3- 0- 0	3	Depth Elective VIII
CH62026	FLUIDIZATION ENGINEERING	3- 0- 0	3	Depth Elective VIII
CH62028	PROJECT ENGINEERING AND MANAGEMENT	3- 0- 0	3	Depth Elective VIII
CH62035	TRANSPORT PROCESSES IN PHYSIOLOGICAL SYSTEMS	3- 1- 0	4	Depth Elective VIII
CH62038	HAZARD ANALYSIS AND RISK MANAGEMENT IN CHEMICAL INDUSTRY	3- 1- 0	4	Depth Elective VIII
CH62045	CHEMICAL ENGINEERING PRINCIPLES IN POLYMER PROCESSING	3- 1-	4	Depth Elective